## Claim Amendments

Please amend claims 1, 2, 9, 17, and 20 as follows: Please cancel claim 13 and 21 as follows:

# <u>Listing of Claims</u>

- 1. (currently amended) A primer tank for generating a primer vapor for treating a substrate with reduced primer droplet formation and improved deposition uniformity of said primer vapor on said substrate comprising:
- a tank body for containing a liquid primer to form a planar exposed surface of said liquid primer, said planar exposed surface comprising a liquid vapor interface; and,
- a nozzle assembly comprising a nozzle plate, said nozzle plate comprising a plurality of openings arranged in a planar dispersed pattern, said planar dispersed pattern comprising radially extending rows of said plurality of openings, said plurality of openings disposed above said planar exposed surface and arranged to direct a plurality of gas streams from said planar dispersed pattern onto said planar exposed surface to form said primer vapor in a vapor collection space above said liquid vapor interface.
- 2. (currently amended) The primer tank of claim 1 wherein said nozzle assembly further comprises[[:]]

a gas inlet pipe adapted to receive a primary gas stream and said nozzle plate provided in downstream fluid communication with said gas inlet pipe[[;]]

wherein said planar disperse pattern comprises said plurality of openings disposed in a plurality of radially extending rows on a plate surface of said nozzle plate.

- 3. (previously presented) The primer tank of claim 1 further comprising a level sensor provided in said tank body adapted to sense a level of the liquid primer in said tank body.
- 4. (canceled)
- 5. (previously presented) The primer tank of claim 1 further comprising a vapor outlet adapted to distribute the primer vapor from said vapor collection space to a downstream process.

Claims 6-8 (canceled)

9. (currently amended) A primer tank for generating a primer vapor for treating a substrate with improved deposition uniformity of said primer vapor on said substrate, comprising:

a tank body for containing a liquid primer to form a planar exposed surface of said liquid primer; and,

a nozzle assembly provided in said tank body, said nozzle assembly having a gas inlet pipe for receiving a primary gas stream;

a housing having a housing interior provided in fluid communication with said gas inlet pipe; and

a nozzle plate in downstream fluid communication with said housing, said nozzle plate having a plurality of openings comprising a planar dispersed pattern, said planar dispersed pattern comprising radially extending rows of said plurality of openings, said planar dispersed pattern adapted to receive the primary gas stream and eject a plurality of secondary gas streams onto said planar exposed surface to create a primer vapor in a vapor collection space above said exposed surface.

- 10. (previously presented) The primer tank of claim 9 further comprising a level sensor provided in said tank body adapted to sense a level of the liquid primer in said tank body.
- 11. (previously presented) The primer tank of claim 9 further

comprising a vapor outlet tube provided in fluid communication with said tank body adapted to distribute the primer vapor from said tank body.

Claims 12-16 (canceled)

17. (currently amended) A method of generating a primer vapor from a liquid primer for treating a substrate to reduce primer vapor droplet formation and improved deposition uniformity of said primer vapor on said substrate comprising the steps of:

providing a primer tank having a tank body;

providing the liquid primer in said tank body to form a planar exposed surface of said liquid primer, said exposed surface comprising a liquid vapor interface;

directing an inert gas comprising a plurality of gas streams from a plurality of openings, said plurality of openings comprising a planar dispersed pattern formed in a plate surface of a nozzle plate, said planar dispersed pattern comprising radially extending rows of said plurality of openings, said plurality of gas streams directed onto said planar exposed surface to form a vapor above said liquid vapor interface, said

vapor comprising said liquid primer and said inert gas; and,

transfering said vapor to a downstream process to deposit said vapor on said substrate.

- 18. (original) The method of claim 17 wherein said liquid primer comprises hexamethyldisilazone.
- 19. (previously presented) The method of claim 17 wherein said plurality of gas streams are directed onto said planar exposed surface at subatmospheric pressures.
- 20. (currently amended) The method of claim 17 wherein the step of directing comprises:

providing a primary gas stream;

dividing said primary gas stream into said plurality of gas streams according to said plurality of openings, said plurality of openings disposed in a plurality of radially extending rows on a plate surface of said nozzle plate to form said planar dispersed pattern, said planar dispersed pattern disposed above said planar exposed surface; and,

directing said plurality of gas streams against said planar exposed surface and collecting said vapor in a vapor collection space disposed above the vapor liquid interface.

## 21. (canceled)

- 22. (previously presented) The method of claim 17, wherein said inert gas comprises nitrogen.
- 23. (previously presented) The method of claim 17, wherein said downstream process comprises treating a semiconductor process wafer with the primer vapor, wherein said downstream process is maintained at a relatively lower pressure than the vapor collection space.
- 24. (previously presented) The primer tank of claim 5, wherein said downstream process is maintained at a lower pressure relative to said vapor collection space.

### 25. (canceled)